



## Faculty Positions in Mechanical Engineering Department Worcester Polytechnic Institute

The Mechanical Engineering Department at Worcester Polytechnic Institute (WPI) has three faculty positions available at the assistant professor level.

### **Advanced Manufacturing**

Research areas of interest include: advanced materials processing, additive manufacturing, digital manufacturing, and sensor development.

### **Computational Materials Engineering**

Research areas of interest include: Product design, material selection, and material processing methods by linking materials models at multiple length scales. Application of integrated computational materials engineering (ICME) to alloy development and process optimization. Modeling techniques that represent the micrometer scale such as dislocation dynamic codes for metals and phase field models for multiphase materials.

### **Thermal/Aerospace Engineering**

Research areas of interest include: turbomachinery, aircraft propulsion, combustion, aeroacoustics, multiphase flows, or other closely related areas.

Each candidate will be expected to develop an externally funded research program and teach relevant undergraduate and graduate courses and is required to have a PhD or equivalent degree in mechanical engineering, aerospace engineering, materials science & engineering, or a relevant discipline.

The Mechanical Engineering Department at WPI (<http://www.wpi.edu/academics/me/>) has 35 full-time faculty members and offers undergraduate degrees in mechanical engineering and aerospace engineering to 1050 students. The department offers graduate degrees in mechanical engineering, aerospace engineering, materials science and engineering, and manufacturing engineering to 390 graduate students. The department's externally sponsored research expenditures averaged over the past five years has exceeded \$10M a year.

WPI's reputation as a rigorous and innovative university rests on the shoulders of its faculty. A highly selective, private technological university and one of the nation's first, WPI believes that when great minds work together, great advances follow. At WPI the boundaries to multidisciplinary collaboration are low—faculty members, students, and other partners work together on the real-world projects and purposeful research that are hallmarks of the WPI experience. We are most proud of a recent No. 1 ranking for “faculty who best combine research and teaching.” (Wall Street Journal/Times Higher Ed, 2016). Located one hour west of Boston, the university's campus is in Worcester, Massachusetts, a thriving 21<sup>st</sup> century college city recognized as a growing hub of scientific and technological innovation.

Applications should include curriculum vitae, statements of teaching and research interests, and a list of five professional references submitted to <https://careers.wpi.edu/postings/5003> for the Advanced Manufacturing search, to <https://careers.wpi.edu/postings/5004> for the Computational Materials Engineering search, and to <https://careers.wpi.edu/postings/5002> for the Thermal/Aero search. Applications from women and minority candidates are especially encouraged. These three searches will remain open until the positions are filled. Questions can be addressed to the respective Chairs of the Search Committees: Professor Brajendra Mishra at [bmishra@wpi.edu](mailto:bmishra@wpi.edu) (Advanced Manufacturing search), Professor Diran Apelian at [dapelian@wpi.edu](mailto:dapelian@wpi.edu) (Computational Materials Engineering search), and Professor Nikos Gatsonis at [gatsonis@wpi.edu](mailto:gatsonis@wpi.edu) (Thermal/Aerospace Engineering search).

WPI is an Equal Opportunity Employer. All qualified candidates will receive consideration for employment without regard to race, color, age, religion, sex, sexual orientation, gender identity, national origin, veteran status, or disability. We are seeking individuals with diverse backgrounds and experiences who will contribute to a culture of creativity and collaboration, inclusion, problem solving and change making.